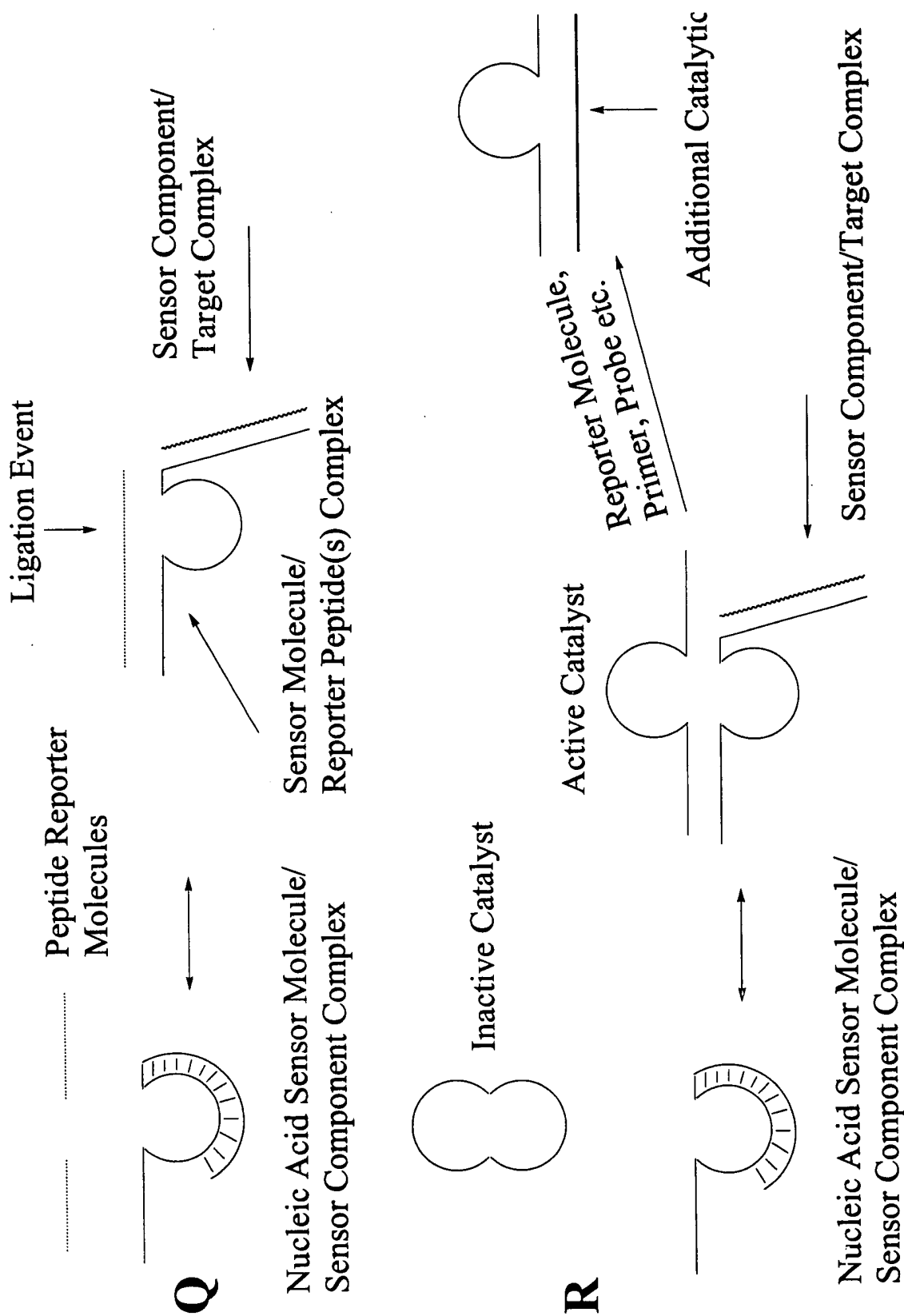
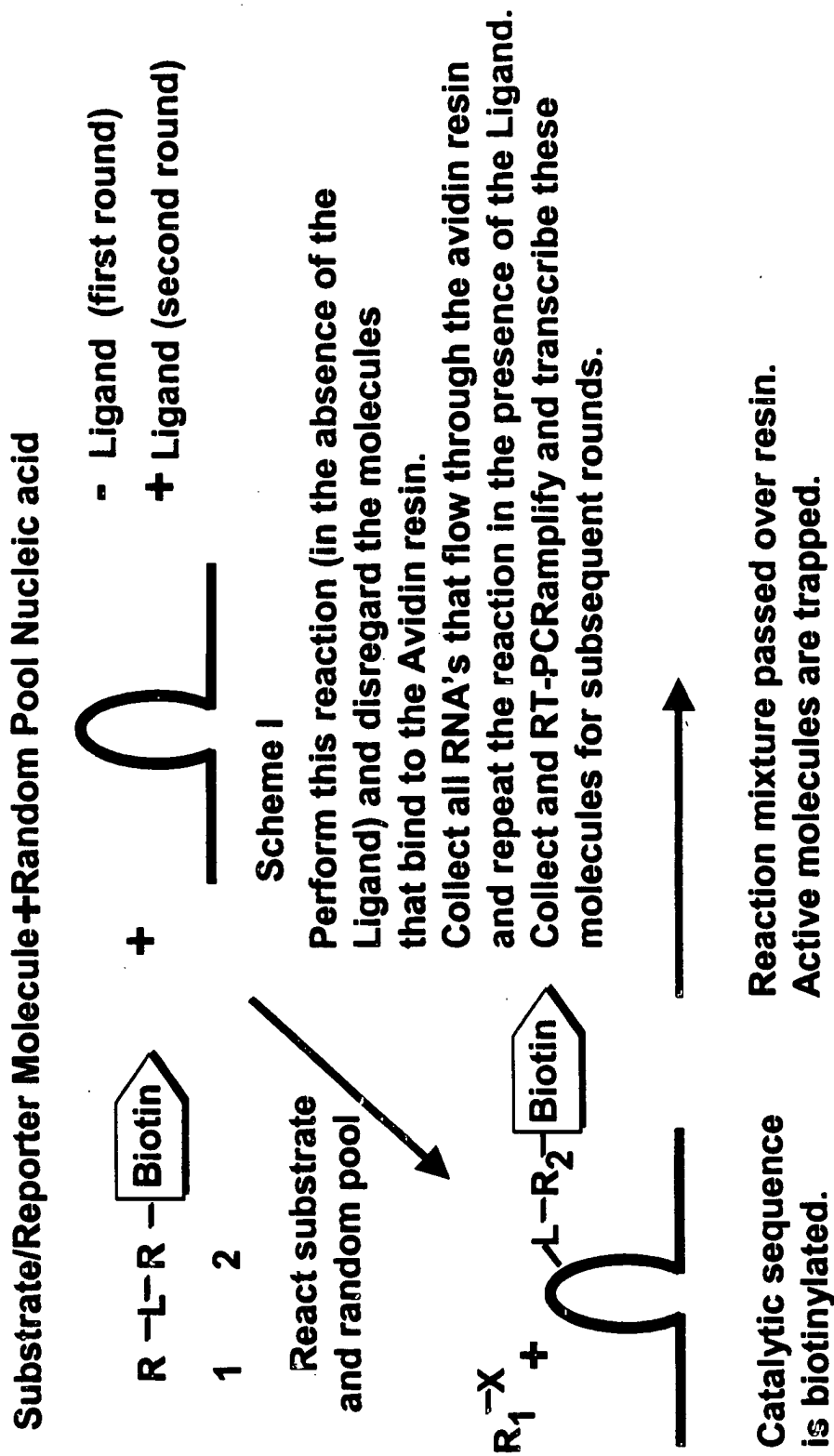


**Figure 13: Examples of Diagnostic Effector Molecules**



**Figure 17b: Auto-ligation Nucleic Acid Sensor Molecules -  
Ligand Dependent**





## Amplification of signal via use of protein enzyme conjugate

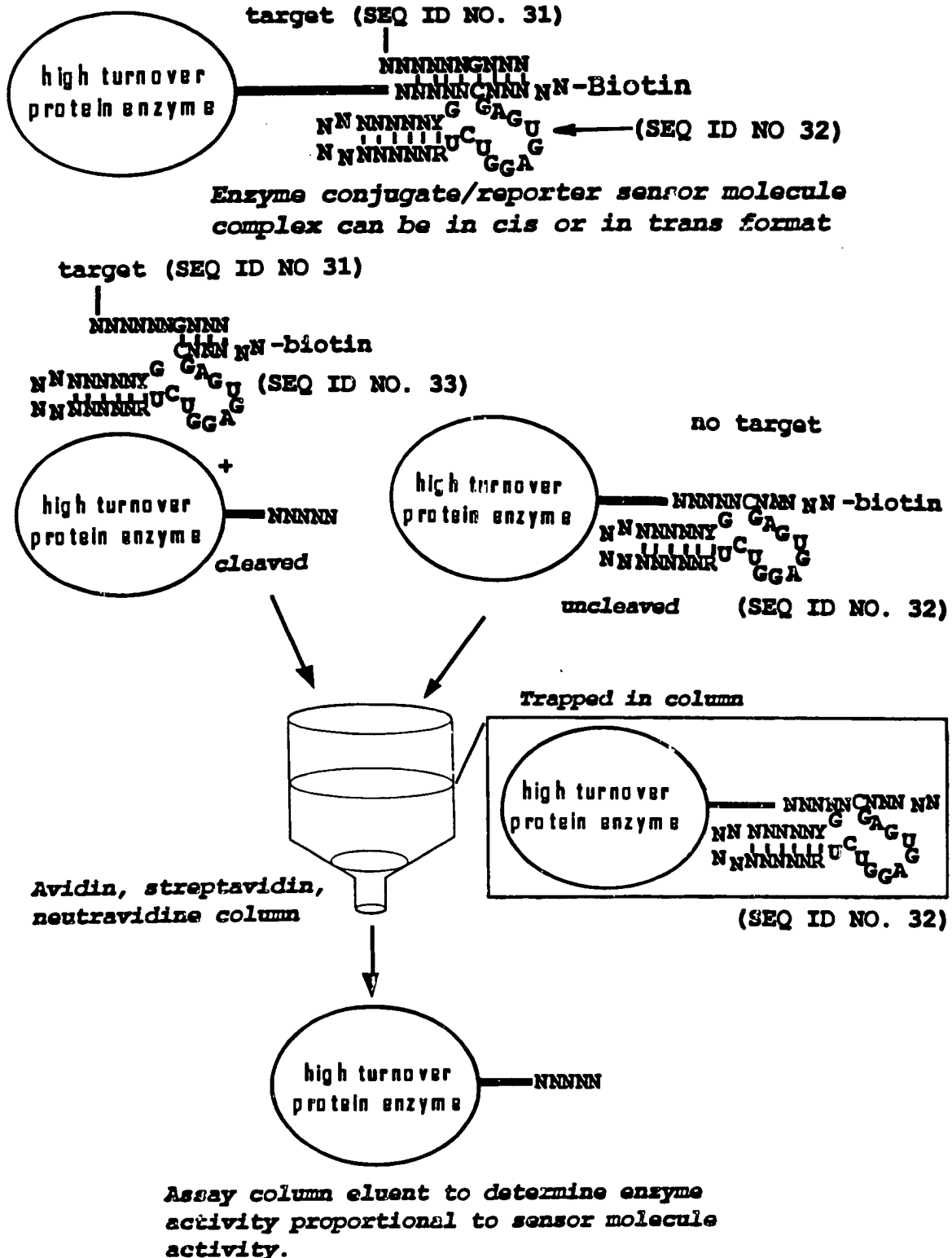
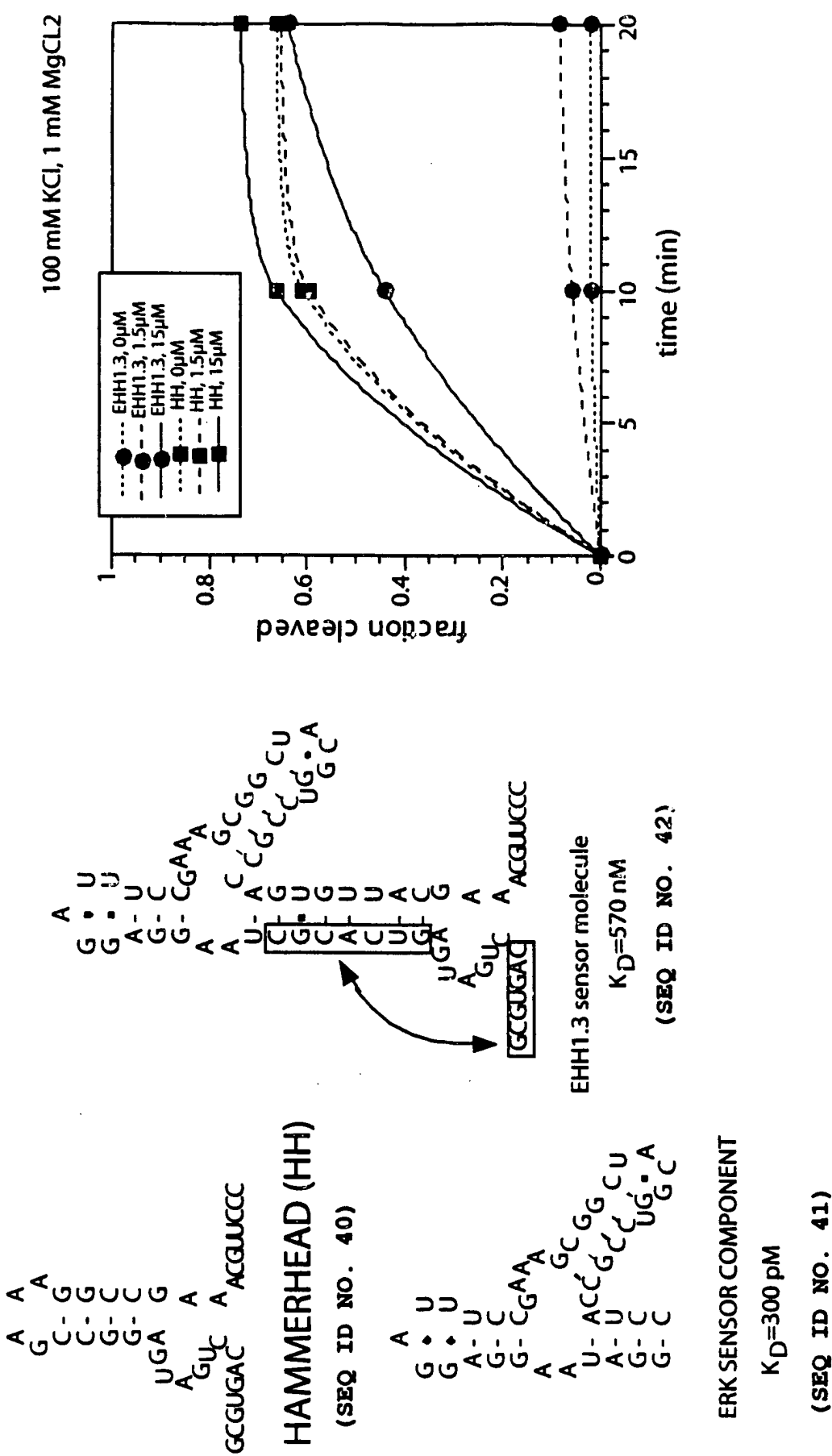


FIG. 22

Figure 28: *Erk modulated Nucleic Acid Sensor Molecule*



# Figure 37A

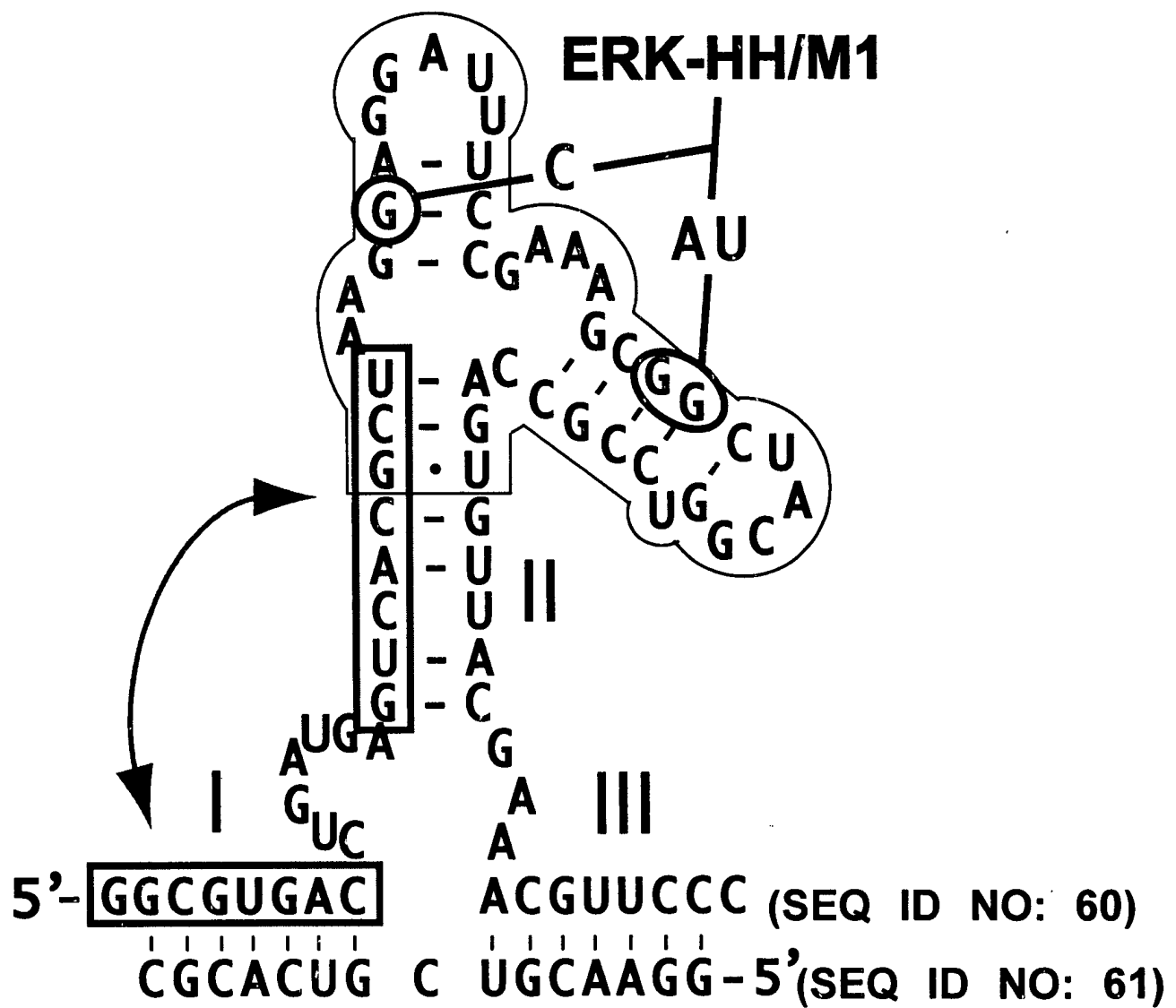


Figure 37C

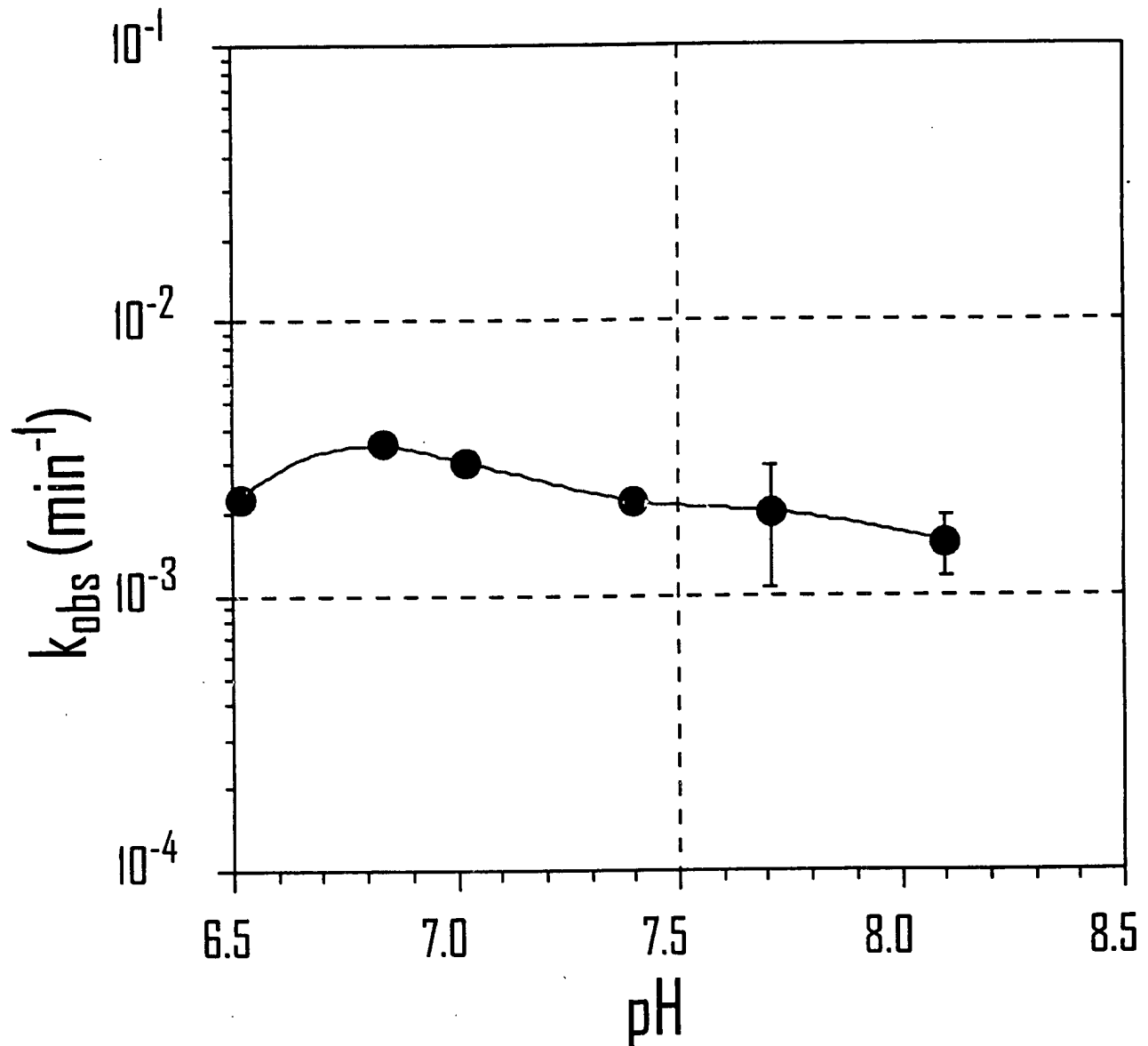
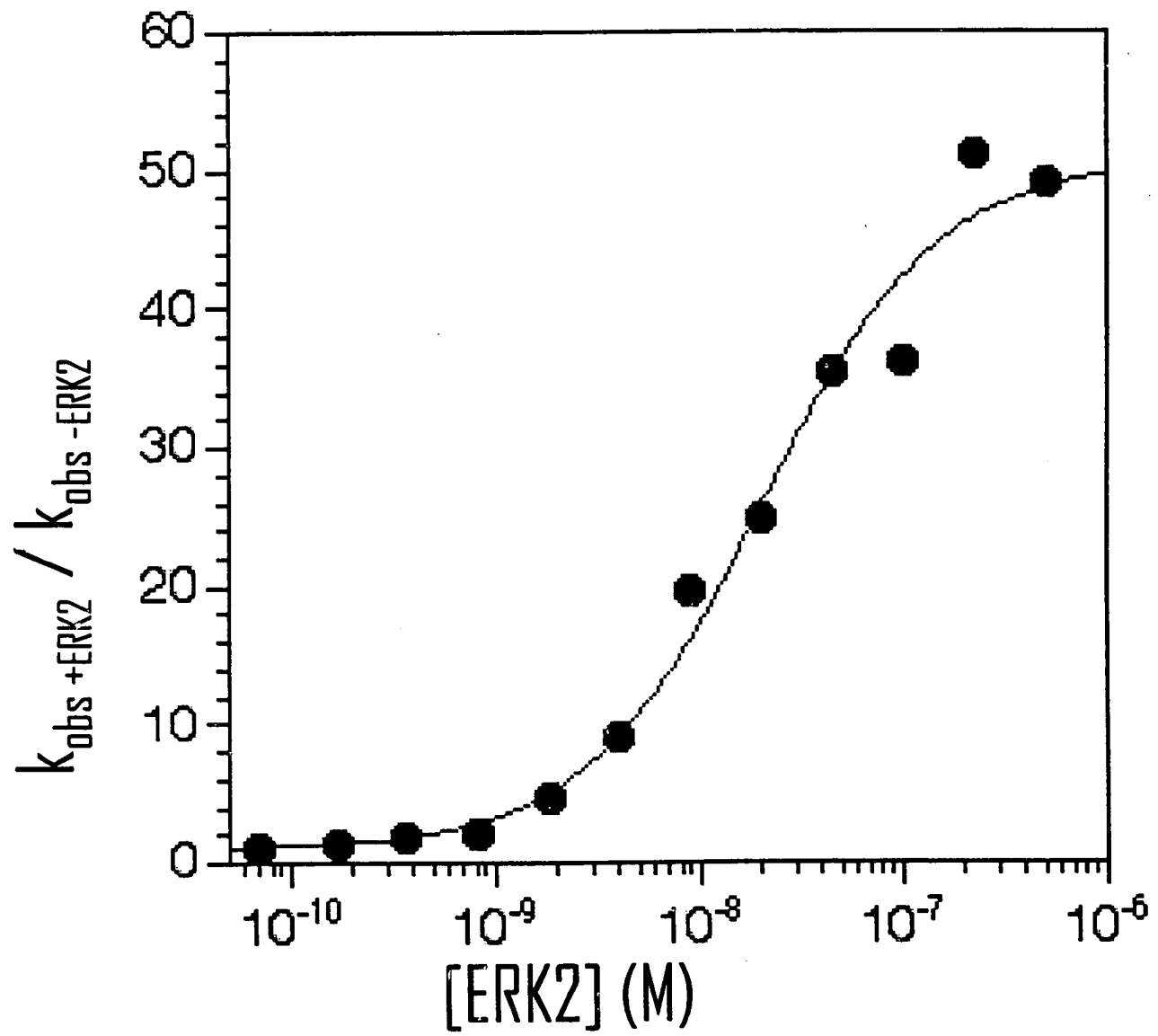
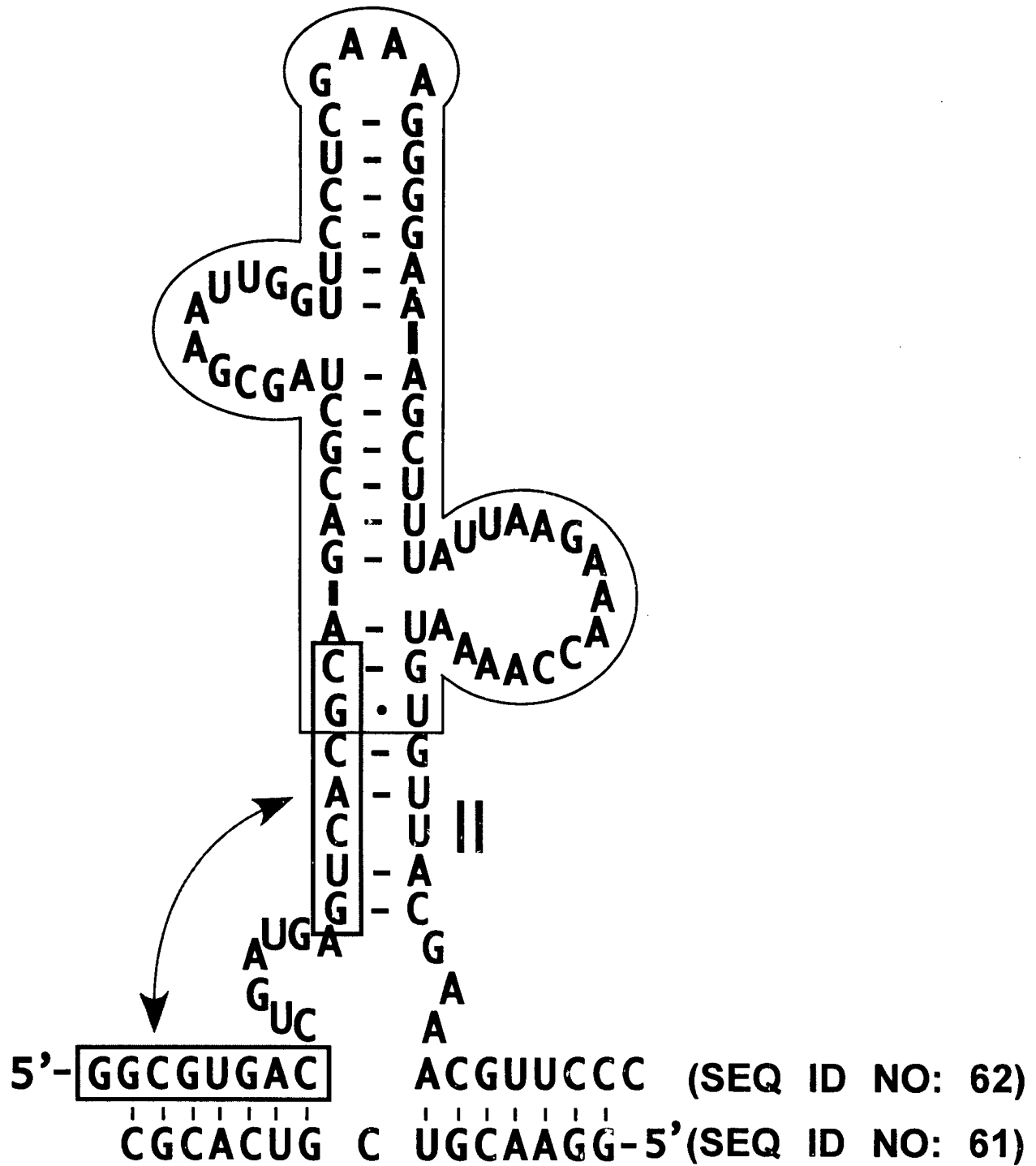


Figure 38





# Figure 42A



# Figure 41B

